Refine Search

Search Results -

Terms	Documents
L4 and search$	7

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L5

[Refine Search] [Recall Text] [Clear] [Interrupt]

Search History

DATE: Saturday, August 14, 2004   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
L5	L4 and search$	7	L5
L4	L2 and ((calculat$ or determin$) with distance)	31	L4
L3	L2 and ("point-of-interest" or "point of interest")	0	L3
L2	L1 and route and map$ and destination	414	L2
L1	vehicle and navigation and (poi or point$ or exit)	3194	L1

END OF SEARCH HISTORY

h   e b   b cg b   e e ch

☐   Generate Collection | Print |

L5: Entry 1 of 7   File: JPAB   Aug 6, 1999

PUB-NO: JP411213283A
DOCUMENT-IDENTIFIER: JP 11213283 A
TITLE: NAVIGATION DEVICE

PUBN-DATE: August 6, 1999

INVENTOR-INFORMATION:
NAME   COUNTRY
MATSUMURA, KAZUMASA

ASSIGNEE-INFORMATION:
NAME   COUNTRY
FUJITSU TEN LTD

APPL-NO: JP10015863
APPL-DATE: January 28, 1998

INT-CL (IPC): G08 G 1/00; G01 C 21/00; G01 S 13/93; G01 S 17/93; G08 G 1/0969

ABSTRACT:

PROBLEM TO BE SOLVED: To perform the search of an appropriate route or the like by
stored information by detecting and storing the position of an obstacle where a
vehicle can not pass through.

SOLUTION: Whether or not obstacle signals are detected by a radar device 9 is
judged, and at the time of judging that the obstacle is present, a distance to the
obstacle is computed from signals from the radar device 9 and the position of the
obstacle on a map is computed based on a vehicle position at the present point of
time decided from the signals from a GPS device, a car speed sensor and a bearing
sensor, the calculated distance L to the obstacle and bearing data from the bearing
sensor. The computed position of the obstacle is stored in a storage part 6 and
whether or not the obstacle is present on a traveling route to a destination
searched by this navigation device is judged from the calculated position of the
obstacle. Then, at the time of judging that it is on the route, alarm signals are
outputted to an acoustic device 10, alarm sound is generated and an alarm is
displayed at a display part 8 simultaneously.

h   e b   b g ee e f   c   e e c   e   ge

☐ ░░Generate Collection░░ │Print│

L5: Entry 2 of 7   File: EPAB   Jan 2, 1997

PUB-NO: EP000751376A2
DOCUMENT-IDENTIFIER: EP 751376 A2
TITLE: Vehicular navigation apparatus

PUBN-DATE: January 2, 1997

INVENTOR-INFORMATION:

NAME   COUNTRY

HAYASIDA, KIHACHI   JP

YANAGIKUBO, TAKESHI   JP

ASSIGNEE-INFORMATION:

NAME   COUNTRY

AISIN AW CO   JP

APPL-NO: EP96110401
APPL-DATE: June 27, 1996

PRIORITY-DATA: JP16167995A (June 28, 1995)

INT-CL (IPC): G01 C 21/20
EUR-CL (EPC): G01C021/34

ABSTRACT:

CHG DATE=19990617 STATUS=O> A navigation apparatus has: a current position
detecting device for detecting current position of a vehicle in which the device is
installed; an information storing device for storing map information and other
route information for route search and route guidance; an input device for
inputting instructions; an output device for outputting information for route
guidance; and a central processing device. The central processing device has route
searching means for searching for a route from the current position to a
destination or a passing point on the basis of the map information, route storing
means for temporarily storing the route found by the route searching means, and
route guidance control means for outputting to the output device a signal for
executing route guidance based on the route. The apparatus determines a location on
a road located a predetermined distance ahead in the travel direction from the
current position, as a search starting location or as a route guidance starting
location.

h   e b   b g ee e f c   e c   e ge

First Hit   Previous Doc   Next Doc   Go to Doc#

[ ]   Generate Collection | Print |

L5: Entry 3 of 7   File: EPAB   Mar 20, 1996

PUB-NO: EP000702209A1
DOCUMENT-IDENTIFIER: EP 702209 A1
TITLE: Vehicular navigation system

PUBN-DATE: March 20, 1996

INVENTOR-INFORMATION:
NAME   COUNTRY
NIMURA, MITUSHIRO   JP
NANBA, AKIMASA   JP
MAEKAWA, KAZUTERU   JP

ASSIGNEE-INFORMATION:
NAME   COUNTRY
AISIN AW CO   JP

APPL-NO: EP95114237
APPL-DATE: September 11, 1995

PRIORITY-DATA: JP24729394A (September 14, 1994), JP26458494A (October 3, 1994)

INT-CL (IPC): G01 C 21/20
EUR-CL (EPC): G01C021/34

ABSTRACT:

CHG DATE=19990617 STATUS=O> A vehicular navigation system includes a central
control unit which determines when a present position deviates from a searched
route along which guidance is being provided from a starting point to a destination
and determines whether or not the detected deviating present position is on a
guidable road prior to re-searching the route and providing guidance based upon the
re-searched route. A guidable road is a road upon which the navigation system
contains sufficient map information and guide information for the navigation system
to search a route and provide guidance. Additionally, system determines whether the
vehicle has traveled a predetermined distance after re-search of the route prior to
providing travel guidance based upon the re-searched route. Otherwise travel
guidance continues to be provided based upon the previously searched route. A
driver, after making a short deviation, may thus return to the previous route

without travel guidance being interrupted by a re-searched route. [img]

h   e b   b g ee e f   c   e   c   e   ge

☐ ▨▨▨ Generate Collection ▨▨▨ | Print |

L5: Entry 4 of 7   File: DWPI   Jul 6, 2001

DERWENT-ACC-NO: 2002-181671
DERWENT-WEEK: 200224
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Route display method for vehicle navigation device, involves determining
distance of route from starting point to destination and displaying route map with
linked external data stored in compact flash memory

PATENT-ASSIGNEE: ENPEX KISHOKEI KK (ENPEN)

PRIORITY-DATA: 1999JP-0365394 (December 22, 1999)

▨▨▨ Search Selected ▨▨▨ | ▨▨▨ Search ALL ▨▨▨ | Clear

PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	JP 2001183152 A	July 6, 2001		016	G01C021/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001183152A	December 22, 1999	1999JP-0365394	

INT-CL (IPC): G01 C 21/00; G01 S 5/14; G06 F 17/30; G08 G 1/0969; G09 B 29/00; G09
B 29/10; H04 B 7/26; H04 Q 7/38

ABSTRACTED-PUB-NO: JP2001183152A
BASIC-ABSTRACT:

NOVELTY - The present position of vehicle in external map data is searched in a
folder based on input global positioning system (GPS) signal based on which
distance of route from the starting point to the destination is determined and
route map is displayed, along with external data stored in compact flash memory.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for navigation device.

USE - For displaying route along with external map data such as weather
information, companion position in vehicle navigation device (claimed).

ADVANTAGE - The external data is also utilized for route search display. Hence
efficiency is improved.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining method of
displaying route in navigation device. (Drawing includes non-English language
text).

ABSTRACTED-PUB-NO: JP2001183152A

h   e b   b g e e e f   c   e   c   e ge

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/10

DERWENT-CLASS: P85 S02 T01 W01 W06 X22
EPI-CODES: S02-B08C; S02-B08E; S02-K04C; T01-J07D3A; W01-C05B5C; W06-A08; X22-E06B;

Previous Doc   Next Doc   Go to Doc#

h   e b   b g e e e f   c   e   c   e   ge

                        ☐ ░░Generate Collection░░ │ Print │

     L5: Entry 5 of 7   File: DWPI   Apr 20, 2001

DERWENT-ACC-NO: 2001-505217
DERWENT-WEEK: 200156
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Route planning apparatus for motor vehicles, displays route such that
starting and terminus points of route are connected by lines through arbitrary
relay points

PATENT-ASSIGNEE: MARUCHI SYSTEMS KK (MARUN)

PRIORITY-DATA: 1999JP-0289118 (October 12, 1999)

            │ ░░Search Selected░░ │   │ ░░Search ALL░░ │ │ ░Clear░ │

PATENT-FAMILY:
        PUB-NO   PUB-DATE   LANGUAGE   PAGES   MAIN-IPC
    ☐ JP 2001108456 A   April 20, 2001   013   G01C021/00

APPLICATION-DATA:
PUB-NO   APPL-DATE   APPL-NO   DESCRIPTOR
JP2001108456A   October 12, 1999   1999JP-0289118

INT-CL (IPC): G01 C 21/00; G06 F 17/30; G08 G 1/0969; G09 B 29/00; G09 B 29/10

ABSTRACTED-PUB-NO: JP2001108456A
BASIC-ABSTRACT:

NOVELTY - The route planning apparatus searches map data stored beforehand, for the
route which connects arbitrary starting and terminus points. A route display unit
(3) displays the route, such that starting point and terminus point of the route
are connected by lines through arbitrary relay points.

DETAILED DESCRIPTION - A route calculation unit computes the direction and the
distance of route which connects starting and terminus points through arbitrary
points based on co-ordinate data. A route patterning unit points the computed route
on the display unit, at predetermined rate of a contraction scale. INDEPENDENT
CLAIMS are also included for the following:

(a) Route planning procedure;

(b) Memory medium storing route planning program

USE - Route planning apparatus of navigation apparatus mounted in motor vehicle.

ADVANTAGE - Sets short distance path between starting point to destination through
relay point easily.

 h   e b   b g ee e f   c   e c   e ge

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of <u>route</u> planning apparatus. (The drawing includes non-English language text).

<u>Route</u> display unit 3

ABSTRACTED-PUB-NO: JP2001108456A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/12

DERWENT-CLASS: P85 S02 T01 T07 X22
EPI-CODES: S02-B08; T01-J06B; T07-A05C; X22-E06;

<u>Previous Doc</u>   <u>Next Doc</u>   <u>Go to Doc#</u>

h   e b   b g ee ef   c   e   c   e   ge

      L5: Entry 6 of 7   File: DWPI   Oct 27, 2003

DERWENT-ACC-NO: 1996-428499
DERWENT-WEEK: 200373
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation appts - has path guiding unit which guides vehicle in
correct path between starting and destination points based on transit position of
vehicle and map information from memory

PATENT-ASSIGNEE: MATSUSHITA DENKI SANGYO KK (MATU)

PRIORITY-DATA: 1995JP-0019145 (February 7, 1995)

               │ ░░Search Selected░░ │ │ ░░Search ALL░░ │ │ Clear │

PATENT-FAMILY:
        PUB-NO   PUB-DATE   LANGUAGE   PAGES   MAIN-IPC
   ☐ JP 3460033 B2   October 27, 2003   014   G01C021/00
   ☐ JP 08210864 A   August 20, 1996   015   G01C021/00

APPLICATION-DATA:
PUB-NO   APPL-DATE   APPL-NO   DESCRIPTOR
JP 3460033B2   February 7, 1995   1995JP-0019145
JP 3460033B2   JP 8210864   Previous Publ.
JP 08210864A   February 7, 1995   1995JP-0019145

INT-CL (IPC): G01 C 21/00; G08 G 1/0969; G09 B 29/10

ABSTRACTED-PUB-NO: JP 08210864A
BASIC-ABSTRACT:

The appts has a bearing sensor (201), a transit distance sensor (202) and an
absolute position detector (203) from which the direction, the transit distance and
the present position of a vehicle are calculated. The information signal is given
to a dead reckoning navigator (205) which determines the transit position of the
vehicle using a road information and a geographic information from a memory (204).
The transit locus along with the map data from the memory are displayed in a
display unit (211). The starting point of the vehicle and the input operation of
the destination point are given to a point setting unit (207) through an input unit
(206), which sets the correct destination point based on the transit position of
the vehicle.

A path planning unit (208) determines the correct path between the starting point
and the destination point and the route is stored in a memory (209). Based on the
route information, a path guiding unit (210) guides the vehicle to move in the
correct path from the starting point to the destination point. If the vehicle goes
beyond the calculated path, then the return path from the destination is to be

h   e b   b g ee e f   c   e   c   e ge

determined. The memory stores the return path of the <u>vehicle</u> and based on this information, the path guiding unit guides the <u>vehicle</u> to follow the return path. Thus, the <u>vehicle</u> is guided along the correct path.

ADVANTAGE - Shortens <u>searching</u> time of <u>vehicle</u> return path. Starts path guiding unit quickly. Resumes path guidance when power supply is switched OFF.

ABSTRACTED-PUB-NO: JP 08210864A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/8

DERWENT-CLASS: P85 S02 W06 X22
EPI-CODES: S02-B08; W06-A03A; W06-A04A1; W06-A04H1; X22-E06D;

h   e b   b g ee e f c   e c   e ge

[ ] Generate Collection   Print

L5: Entry 7 of 7   File: DWPI   Mar 20, 1996

DERWENT-ACC-NO: 1996-152783
DERWENT-WEEK: 200256
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Navigation system esp. for motor vehicle with automatic route re-search on
route deviation - when current position deviates from searched route, determines
whether vehicle has travelled predetermined distance after re-searching, where
travel guidance is based on re-searched route, or otherwise based on previously
searched route

INVENTOR: MAEKAWA, K; NANBA, A ; NIMURA, M

PATENT-ASSIGNEE: AISIN AW CO LTD (AISW)

PRIORITY-DATA: 1994JP-0264584 (October 3, 1994), 1994JP-0247293 (September 14,
1994)

Search Selected   Search ALL   Clear

PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
[ ]	EP 702209 A1	March 20, 1996	E	031	G01C021/20
[ ]	DE 69527121 E	July 25, 2002		000	G01C021/20
[ ]	JP 08086659 A	April 2, 1996		010	G01C021/00
[ ]	JP 08105754 A	April 23, 1996		013	G01C021/00
[ ]	US 5757289 A	May 26, 1998		000	G08G001/123
[ ]	JP 3171029 B2	May 28, 2001		013	G01C021/00
[ ]	EP 702209 B1	June 19, 2002	E	000	G01C021/20

DESIGNATED-STATES: DE FR GB IT DE FR GB IT

CITED-DOCUMENTS:DE 4226230; EP 583773 ; US 5303159 ; US 5311434

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 702209A1	September 11, 1995	1995EP-0114237	
DE 69527121E	September 11, 1995	1995DE-0627121	
DE 69527121E	September 11, 1995	1995EP-0114237	
DE 69527121E		EP 702209	Based on
JP 08086659A	September 14, 1994	1994JP-0247293	
JP 08105754A	October 3, 1994	1994JP-0264584	

US 5757289A   June 6, 1995   1995US-0466193
JP 3171029B2   October 3, 1994   1994JP-0264584
JP 3171029B2   JP 8105754   Previous Publ.
EP 702209B1   September 11, 1995   1995EP-0114237

INT-CL (IPC): <u>G01</u> <u>C</u> <u>21</u>/<u>00</u>; <u>G01</u> <u>C</u> <u>21</u>/<u>20</u>; <u>G08</u> <u>G</u> <u>1</u>/<u>0969</u>; <u>G08</u> <u>G</u> <u>1</u>/<u>123</u>; <u>G09</u> <u>B</u> <u>29</u>/<u>10</u>

ABSTRACTED-PUB-NO: EP 702209A
BASIC-ABSTRACT:

The <u>navigations</u> system has a central control section (4) with a <u>route</u> calculating portion which determines the current position and calculates a <u>route to the destination</u>. The current position is determined by a CPU on the basis of GPS information, <u>map</u> information and <u>vehicle</u> sensors in a detecting section (2). A <u>route</u> guidance control portion outputs <u>route</u> data via an input/output section (1) when requested by the user.

The control unit determines when the current position deviates from a <u>searched route</u> along which the guidance is being provided from a starting <u>point to a destination,</u> and determines whether or not the position is on a guidable i.e. <u>map-trackable</u> road prior to <u>re-searching the route,</u> when it the provides guidance based on the <u>re-searched route</u>. If the <u>vehicle</u> has not travelled a predetermined distance after <u>re-searching the route,</u> the travel guidance remains that based on the previously <u>searched route</u>. The driver, after making a short deviation, may return to previous <u>route</u> without interruption of travel guidance by a <u>re-searched route</u>.

ADVANTAGE - Is capable of <u>re-searching route</u> using limited <u>map</u> data, i.e. which does not cover un-guidable minor roads, without confusing driver.

ABSTRACTED-PUB-NO: EP 702209B
EQUIVALENT-ABSTRACTS:

The <u>navigations</u> system has a central control section (4) with a <u>route</u> calculating portion which determines the current position and calculates a <u>route to the destination</u>. The current position is determined by a CPU on the basis of GPS information, <u>map</u> information and <u>vehicle</u> sensors in a detecting section (2). A <u>route</u> guidance control portion outputs <u>route</u> data via an input/output section (1) when requested by the user.

The control unit determines when the current position deviates from a <u>searched route</u> along which the guidance is being provided from a starting <u>point to a destination,</u> and determines whether or not the position is on a guidable i.e. <u>map-trackable</u> road prior to <u>re-searching the route,</u> when it the provides guidance based on the <u>re-searched route</u>. If the <u>vehicle</u> has not travelled a predetermined distance after <u>re-searching the route,</u> the travel guidance remains that based on the previously <u>searched route</u>. The driver, after making a short deviation, may return to previous <u>route</u> without interruption of travel guidance by a <u>re-searched route</u>.

ADVANTAGE - Is capable of <u>re-searching route</u> using limited <u>map</u> data, i.e. which does not cover un-guidable minor roads, without confusing driver.

US 5757289A

The <u>navigations</u> system has a central control section (4) with a <u>route</u> calculating portion which determines the current position and calculates a <u>route to the destination</u>. The current position is determined by a CPU on the basis of GPS

h   e b   b g ee e f   c   e   c   e ge

information, map information and vehicle sensors in a detecting section (2). A route guidance control portion outputs route data via an input/output section (1) when requested by the user.

The control unit determines when the current position deviates from a searched route along which the guidance is being provided from a starting point to a destination, and determines whether or not the position is on a guidable i.e. map-trackable road prior to re-searching the route, when it the provides guidance based on the re-searched route. If the vehicle has not travelled a predetermined distance after re-searching the route, the travel guidance remains that based on the previously searched route. The driver, after making a short deviation, may return to previous route without interruption of travel guidance by a re-searched route.

ADVANTAGE - Is capable of re-searching route using limited map data, i.e. which does not cover un-guidable minor roads, without confusing driver.

CHOSEN-DRAWING: Dwg.1/29

DERWENT-CLASS: S02 T01 T07 W06 X22
EPI-CODES: S02-B08; T01-J06B; T07-A05C; W06-A03A; W06-A08; X22-E06D;

h   e b   b g ee e f   c   e   c   e   ge

Hit List

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1.   Document ID: JP 11213283 A

Using default format because multiple data bases are involved.

L5: Entry 1 of 7   File: JPAB   Aug 6, 1999

PUB-NO: JP411213283A
DOCUMENT-IDENTIFIER: JP 11213283 A
TITLE: NAVIGATION DEVICE

PUBN-DATE: August 6, 1999

INVENTOR-INFORMATION:
NAME   COUNTRY
MATSUMURA, KAZUMASA

INT-CL (IPC): G08 G 1/00; G01 C 21/00; G01 S 13/93; G01 S 17/93; G08 G 1/0969

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 2.   Document ID: EP 751376 A2

L5: Entry 2 of 7   File: EPAB   Jan 2, 1997

PUB-NO: EP000751376A2
DOCUMENT-IDENTIFIER: EP 751376 A2
TITLE: Vehicular navigation apparatus

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 3.   Document ID: EP 702209 A1

L5: Entry 3 of 7   File: EPAB   Mar 20, 1996

PUB-NO: EP000702209A1
DOCUMENT-IDENTIFIER: EP 702209 A1
TITLE: Vehicular navigation system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

h   e b   b g ee e f   e   c   ef   b   e

☐   4.   Document ID: JP 2001183152 A
L5: Entry 4 of 7   File: DWPI   Jul 6, 2001

DERWENT-ACC-NO: 2002-181671
DERWENT-WEEK: 200224
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Route display method for vehicle navigation device, involves determining
distance of route from starting point to destination and displaying route map with
linked external data stored in compact flash memory

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   5.   Document ID: JP 2001108456 A
L5: Entry 5 of 7   File: DWPI   Apr 20, 2001

DERWENT-ACC-NO: 2001-505217
DERWENT-WEEK: 200156
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Route planning apparatus for motor vehicles, displays route such that
starting and terminus points of route are connected by lines through arbitrary
relay points

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   6.   Document ID: JP 3460033 B2, JP 08210864 A
L5: Entry 6 of 7   File: DWPI   Oct 27, 2003

DERWENT-ACC-NO: 1996-428499
DERWENT-WEEK: 200373
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation appts - has path guiding unit which guides vehicle in
correct path between starting and destination points based on transit position of
vehicle and map information from memory

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   7.   Document ID: EP 702209 A1, DE 69527121 E, JP 08086659 A, JP 08105754 A, US
5757289 A, JP 3171029 B2, EP 702209 B1
L5: Entry 7 of 7   File: DWPI   Mar 20, 1996

DERWENT-ACC-NO: 1996-152783
DERWENT-WEEK: 200256
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Navigation system esp. for motor vehicle with automatic route re-search on

h   e b   b g ee e f   e c   ef   b   e

route deviation - when current position deviates from searched route, determines whether vehicle has travelled predetermined distance after re-searching, where travel guidance is based on re-searched route, or otherwise based on previously searched route

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L4 and search$	7

Display Format: [   ] Change Format

Previous Page   Next Page   Go to Doc#

h   e b   b   g ee e f   e   c   ef   b   e

Hit List

Search Results - Record(s) 1 through 10 of 31 returned.

☐ 1. Document ID: JP 2002213972 A

Using default format because multiple data bases are involved.

L4: Entry 1 of 31   File: JPAB   Jul 31, 2002

PUB-NO: JP02002213972A
DOCUMENT-IDENTIFIER: JP 2002213972 A
TITLE: NAVIGATION DEVICE

PUBN-DATE: July 31, 2002

INVENTOR-INFORMATION:
NAME   COUNTRY
YABU, TOSHIHIDE

INT-CL (IPC): G01 C 21/00; G08 G 1/0969; G09 B 29/10; H04 B 7/26

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

☐ 2. Document ID: JP 2000055688 A

L4: Entry 2 of 31   File: JPAB   Feb 25, 2000

PUB-NO: JP02000055688A
DOCUMENT-IDENTIFIER: JP 2000055688 A
TITLE: ON-VEHICLE NAVIGATION DEVICE

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

☐ 3. Document ID: JP 11271083 A

L4: Entry 3 of 31   File: JPAB   Oct 5, 1999

PUB-NO: JP411271083A
DOCUMENT-IDENTIFIER: JP 11271083 A
TITLE: NAVIGATION METHOD

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D |

h   e b   b   g   e e f   e   c   ef   b   e

☐ 4. Document ID: JP 11213283 A

L4: Entry 4 of 31   File: JPAB   Aug 6, 1999

PUB-NO: JP411213283A
DOCUMENT-IDENTIFIER: JP 11213283 A
TITLE: NAVIGATION DEVICE

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 5. Document ID: EP 751376 A2

L4: Entry 5 of 31   File: EPAB   Jan 2, 1997

PUB-NO: EP000751376A2
DOCUMENT-IDENTIFIER: EP 751376 A2
TITLE: Vehicular navigation apparatus

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 6. Document ID: EP 702209 A1

L4: Entry 6 of 31   File: EPAB   Mar 20, 1996

PUB-NO: EP000702209A1
DOCUMENT-IDENTIFIER: EP 702209 A1
TITLE: Vehicular navigation system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 7. Document ID: JP 2002310703 A

L4: Entry 7 of 31   File: DWPI   Oct 23, 2002

DERWENT-ACC-NO: 2003-007433
DERWENT-WEEK: 200305
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Reset announcement apparatus for navigation system, acquires geographical
special feature corresponding to reset original route, corresponding to which
message is produced and announced

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 8. Document ID: EP 1380021 A1, DE 10117395 A1, WO 200282404 A1

L4: Entry 8 of 31   File: DWPI   Jan 14, 2004

DERWENT-ACC-NO: 2003-130885
DERWENT-WEEK: 200410

h   e   b   b   g   ee   e f   e   c   ef   b   e

TITLE: Operation method for a motor vehicle navigation system, calculates the distance to a decision making node and as soon as a minimum distance is reached a new decision making node is determined

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |

☐ 9. Document ID: EP 1130359 A2, US 6418375 B2, DE 10010608 A1, JP 2001289657 A, US 20010027376 A1, KR 2001087310 A

L4: Entry 9 of 31   File: DWPI   Sep 5, 2001

DERWENT-ACC-NO: 2002-012497
DERWENT-WEEK: 200253

TITLE: Navigation with small data quantities involves comparing distance covered between way points with stored distance to output driving notices when difference below minimum value

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |

☐ 10. Document ID: JP 2001183152 A

L4: Entry 10 of 31   File: DWPI   Jul 6, 2001

DERWENT-ACC-NO: 2002-181671
DERWENT-WEEK: 200224

TITLE: Route display method for vehicle navigation device, involves determining distance of route from starting point to destination and displaying route map with linked external data stored in compact flash memory

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L2 and ((calculat$ or determin$) with distance)	31

Display Format: |- | Change Format

h   e b   b g ee e f   e   c   ef   b   e

Hit List

Search Results - Record(s) 11 through 20 of 31 returned.

☐ 11. Document ID: JP 2001108456 A

L4: Entry 11 of 31   File: DWPI   Apr 20, 2001

DERWENT-ACC-NO: 2001-505217
DERWENT-WEEK: 200156
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Route planning apparatus for motor vehicles, displays route such that
starting and terminus points of route are connected by lines through arbitrary
relay points

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. D

☐ 12. Document ID: US 6188955 B1

L4: Entry 12 of 31   File: DWPI   Feb 13, 2001

DERWENT-ACC-NO: 2001-501701
DERWENT-WEEK: 200155
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle mounted electronic navigation device has processor to define route
on common feature, when starting location and destination are within common
feature, else defines route on common link or common network

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. D

☐ 13. Document ID: JP 2000275050 A

L4: Entry 13 of 31   File: DWPI   Oct 6, 2000

DERWENT-ACC-NO: 2000-668041
DERWENT-WEEK: 200065
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicular navigation apparatus has display unit in which scrolling of map is
carried out in determined scroll direction for distance lesser than specific value

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. D

---

h   e b   b cg b   cc   e

☐   14.   Document ID: JP 2000193476 A

L4: Entry 14 of 31   File: DWPI   Jul 14, 2000

DERWENT-ACC-NO: 2000-508719
DERWENT-WEEK: 200046
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Satellite based navigation apparatus for vehicles, computes distance ratio
of specific route other than destination route with respect to starting point,
based on which target route is selected

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   15.   Document ID: US 5964821 A

L4: Entry 15 of 31   File: DWPI   Oct 12, 1999

DERWENT-ACC-NO: 1999-618757
DERWENT-WEEK: 199953
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Mapless GPS navigation system with sortable destinations for use in
automotive vehicle

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   16.   Document ID: JP 11066284 A

L4: Entry 16 of 31   File: DWPI   Mar 9, 1999

DERWENT-ACC-NO: 1999-237737
DERWENT-WEEK: 199920
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Route display device for car navigation apparatus - has warning unit that
informs variation of route condition

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   17.   Document ID: JP 09236445 A

L4: Entry 17 of 31   File: DWPI   Sep 9, 1997

DERWENT-ACC-NO: 1997-499336
DERWENT-WEEK: 199750
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation system e.g. for motor vehicle - in which display unit
displays facilities name acquired by acquisition unit when distance between current
position and cross point is less than predetermined value

h   e b   b cg b   cc   e

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D¿ |

☐ 18. Document ID: DE 29521357 U1

L4: Entry 18 of 31   File: DWPI   Feb 20, 1997

DERWENT-ACC-NO: 1997-134318
DERWENT-WEEK: 199714
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Directed guiding unit for guiding vehicle to destination - has distance
determining device to trigger alarm signal when calculated perpendicular distance
exceeds threshold

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 19. Document ID: JP 3395929 B2, JP 08304094 A, US 6070124 A

L4: Entry 19 of 31   File: DWPI   Apr 14, 2003

DERWENT-ACC-NO: 1997-055900
DERWENT-WEEK: 200328
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Navigation appts. for moving vehicle - has direction destination mark
display through which mark that shows destination of moving vehicle is generated

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 20. Document ID: JP 3460033 B2, JP 08210864 A
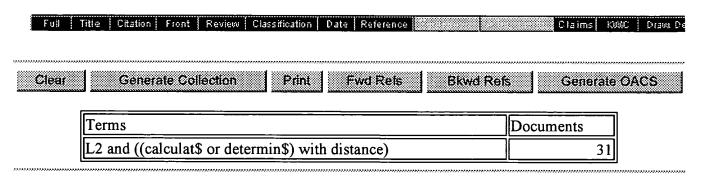
L4: Entry 20 of 31   File: DWPI   Oct 27, 2003

DERWENT-ACC-NO: 1996-428499
DERWENT-WEEK: 200373
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation appts - has path guiding unit which guides vehicle in
correct path between starting and destination points based on transit position of
vehicle and map information from memory

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L2 and ((calculat$ or determin$) with distance)	31

h   e b   b cg b   cc   e

Display Format: [-____] [Change Format]

Previous Page   Next Page   Go to Doc#

h   e b   b cg b cc   e

Hit List

Search Results - Record(s) 21 through 30 of 31 returned.

☐ 21. Document ID: EP 702209 A1, DE 69527121 E, JP 08086659 A, JP 08105754 A, US 5757289 A, JP 3171029 B2, EP 702209 B1

Using default format because multiple data bases are involved.

L4: Entry 21 of 31   File: DWPI   Mar 20, 1996

DERWENT-ACC-NO: 1996-152783
DERWENT-WEEK: 200256
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Navigation system esp. for motor vehicle with automatic route re-search on route deviation - when current position deviates from searched route, determines whether vehicle has travelled predetermined distance after re-searching, where travel guidance is based on re-searched route, or otherwise based on previously searched route

INVENTOR: MAEKAWA, K; NANBA, A ; NIMURA, M

PRIORITY-DATA: 1994JP-0264584 (October 3, 1994), 1994JP-0247293 (September 14, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 702209 A1	March 20, 1996	E	031	G01C021/20
DE 69527121 E	July 25, 2002		000	G01C021/20
JP 08086659 A	April 2, 1996		010	G01C021/00
JP 08105754 A	April 23, 1996		013	G01C021/00
US 5757289 A	May 26, 1998		000	G08G001/123
JP 3171029 B2	May 28, 2001		013	G01C021/00
EP 702209 B1	June 19, 2002	E	000	G01C021/20

INT-CL (IPC): G01 C 21/00; G01 C 21/20; G08 G 1/0969; G08 G 1/123; G09 B 29/10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 22. Document ID: JP 08054253 A

L4: Entry 22 of 31   File: DWPI   Feb 27, 1996

DERWENT-ACC-NO: 1996-176336
DERWENT-WEEK: 199618
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Motor vehicle navigation apparatus - has display mechanism which display map

h   e b   b cg b   cc   e

for destination of driver based on present position of vehicle to guide driver
completely until the reaches destination

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 23. Document ID: JP 07174573 A

L4: Entry 23 of 31   File: DWPI   Jul 14, 1995

DERWENT-ACC-NO: 1995-277719
DERWENT-WEEK: 199537
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Destination display appts for motor vehicle navigation system - displays
sealed map of destination as vehicle progresses in its run course towards indicated
destination

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 24. Document ID: JP 3409377 B2, DE 4428009 A1, US 5541592 A, DE 4428009 C2

L4: Entry 24 of 31   File: DWPI   May 26, 2003

DERWENT-ACC-NO: 1995-091973
DERWENT-WEEK: 200335
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Position detection system for movable body - has display unit, map memory,
travelled distance detector, mode selector for simulated navigation, simulation
position detector and controller

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 25. Document ID: EP 629840 A1, JP 3302445 B2, US 5463554 A, EP 629840 B1, DE
69415406 E

L4: Entry 25 of 31   File: DWPI   Dec 21, 1994

DERWENT-ACC-NO: 1995-024347
DERWENT-WEEK: 200253
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation system providing route display to destination -
incorporates automatic setting of new target transit point if travel route is
changed and original target transit point is not passed

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 26. Document ID: GB 2271423 A, DE 4334701 C2, DE 4334701 A1, US 5430653 A, GB
2271423 B

h   e b   b cg b   cc   e

L4: Entry 26 of 31   File: DWPI   Apr 13, 1994

DERWENT-ACC-NO: 1994-103732
DERWENT-WEEK: 199707
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation display system - has road selector for choosing road to
be taken from base point to intersection and displays route on road map

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 27. Document ID: DE 4327780 A1, JP 3145198 B2, US 5638279 A, DE 4327780 C2, JP 3129846 B2

L4: Entry 27 of 31   File: DWPI   Mar 3, 1994

DERWENT-ACC-NO: 1994-075864
DERWENT-WEEK: 200116
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Vehicle navigation system with display for vehicle position w.r.t. junction
- begins discrete display of position when vehicle is set distance from
intersection, and ends display when system determines that crossing has been
accomplished

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 28. Document ID: DE 4035979 A, DE 4035979 C2, FR 2655449 A, GB 2238870 A, GB 2238870 B, US 5206811 A

L4: Entry 28 of 31   File: DWPI   Jun 6, 1991

DERWENT-ACC-NO: 1991-172523
DERWENT-WEEK: 199124
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Navigation system for motor vehicle - uses computer with memory maps with
system of destination points and data groups to display abstract information

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 29. Document ID: DE 3719017 A, DE 3874115 G, EP 323485 A, EP 323485 B1, US 4984168 A, WO 8809974 A

L4: Entry 29 of 31   File: DWPI   Dec 15, 1988

DERWENT-ACC-NO: 1988-361657
DERWENT-WEEK: 198851
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Travel route determination for land vehicle navigation - determines route

h   e b   b cg b   cc   e

between start and <u>destination</u> within stored road system having two planes of
different mesh density and zone size

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   30.   Document ID: DE 3610251 A, DE 3610251 C, US 4782447 A

L4: Entry 30 of 31   File: DWPI   Oct 9, 1986

DERWENT-ACC-NO: 1986-273124
DERWENT-WEEK: 198642
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: <u>Navigation</u> system for road <u>vehicles</u> - has street <u>map</u> data stored in memory
and accesses by processor with outputs from direction and distance sensors

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L2 and ((calculat$ or determin$) with distance)	31

Display Format: [-] [Change Format]

<u>Previous Page</u>   <u>Next Page</u>   <u>Go to Doc#</u>

h   e b ·   b cg b   cc   e

Hit List

Search Results - Record(s) 31 through 31 of 31 returned.

☐ 31. Document ID: EP 20939 A, BR 8003955 A, DE 2925656 A, DE 2925656 C

Using default format because multiple data bases are involved.

```
L4: Entry 31 of 31                    File: DWPI              Jan 7, 1981

DERWENT-ACC-NO: 1981-A5762D
DERWENT-WEEK: 198104
COPYRIGHT 2004 DERWENT INFORMATION LTD
TITLE: Guidance system for road vehicle - uses processor in each vehicle to
calculate route from movement, destination and positional data

INVENTOR: PILSAK, O

PRIORITY-DATA: 1979DE-2925656 (June 26, 1979)

PATENT-FAMILY:
PUB-NO              PUB-DATE               LANGUAGE     PAGES     MAIN-IPC
EP 20939 A          January 7, 1981        G            000
BR 8003955 A        January 13, 1981                    000
DE 2925656 A        January 15, 1981                    000
DE 2925656 C        December 3, 1987                    000

INT-CL (IPC): G01C 21/14; G05D 1/12; G06F 15/50; G08G 1/09
```

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Da |

Terms	Documents
L2 and ((calculat$ or determin$) with distance)	31

Display Format: |- Change Format

Previous Page   Next Page   Go to Doc#

h   e b   b cg b   cc   e

SHOW FILES, DS
>>>Invalid SHOW option: ,
File   2:INSPEC 1969-2004/Aug W1
        (c) 2004 Institution of Electrical Engineers
File   6:NTIS 1964-2004/Aug W3
        (c) 2004 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1970-2004/Aug W1
        (c) 2004 Elsevier Eng. Info. Inc.
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W2
        (c) 2004 Inst for Sci Info
File 81:MIRA - Motor Industry Research 2001-2004/Jul
        (c) 2004 MIRA Ltd.
File 94:JICST-EPlus 1985-2004/Jul W3
        (c)2004 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2004/Jun W1
        (c) 2004 FIZ TECHNIK
File 103:Energy SciTec 1974-2004/Jul B2
        (c) 2004 Contains copyrighted material
File 144:Pascal 1973-2004/Aug W1
        (c) 2004 INIST/CNRS
File 292:GEOBASE(TM) 1980-2004/Aug B1
        (c) 2004 Elsevier Science Ltd.
?

Set	Items	Description
S1	50	NAVIGATION AND (EXIT? OR POI OR POINT) AND SEARCH? AND TANCE
S2	14	NAVIGATION AND (EXIT? OR POI OR POINT) AND SEARCH? AND TANCE AND PD<=030204
S3	4	NAVIGATION AND (EXIT? OR POI OR POINT) AND SEARCH? AND TANCE AND DESTINATION
S4	3	RD (unique items)

?

4/3,KWIC/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)

03478820   E.I. Monthly No: EI9209110389
Title: On performance of path planning algorithms in unknown terrains.
Author: Rao, Nageswara, S. V.
Corporate Source: Old Dominion Univ, Norfolk, VA, USA
Source: ORSA Journal on Computing v 4 n 2 Spring 1992 p 218
Publication Year: 1992
CODEN: OJCOE3   ISSN: 0899-1499
Language: English

Abstract: We consider the problem of planning a collision-free path for a
point robot R from its present position to a specified destination
position through an unknown terrain, i.e., a terrain whose model is not
known a...

...paper, we investigate some trade-offs in the performance of such
algorithms in terms of distance traversed, number of sensor operations
and computational complexity. These trade-offs accrue as a result of the
details of an underlying graph search algorithm, and in this sense are
independent of the other properties of the terrain. We...

...each step, and that (c) among a set of implementations that attempt to
optimize the distance to the destination , the A* implementation results
in minimum number of scan operations. We also present some interesting...
  Identifiers: SENSOR OPERATIONS; COLLISION FREE PATH; NAVIGATION C
GRAPH SEARCH ALGORITHM

4/3,KWIC/2   (Item 2 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)

02001518   E.I. Monthly No: EI8608067887   E.I. Yearly No: EI86007250
Title: PROFILE OF DRIVERS' MAP-READING ABILITIES.
Author: Streeter, Lynn A.; Vitello, Diane
Corporate Source: Bell Communications Research, Morristown, NJ, USA
Source: Human Factors v 28 n 2 Apr 1986 p 223-239
Publication Year: 1986

...Abstract: varying degrees of familiarity with an area were compared with routes generated by standard graph- search procedures. A shortest-path, breadth-first route characterized half of the 'expert' routes, whereas none of the graph- search procedures matched 'intermediate' and 'novice' routes. A good predictor of whether people chose a particular...

...whether the sum of A PLUS B PLUS C (where A equals the straight-line distance from the start to the road, B equals the distance traveled on the road, and C equals the straight-line distance from the departure point on the road to the destination) did not exceed the straight-line distance between start and destination by more than about 20%. (Edited author abstract) 15 refs.
  Identifiers: MAP-READING; SURFACE NAVIGATION

4/3,KWIC/3   (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management

00703978 I93068944927
 Two-dimensional robot navigation among unknown stationary polygonal obstacles
(Orientierung eines zweidimensionalen Roboters zwischen unbekannten, stationaeren polygonalen Hindernissen)
Foux, G; Heymann, M; Bruckstein, A
Dept. of Comput. Sci., Technion-Israel Inst. of Technol., Haifa, Israel
IEEE Transactions on Robotics and Automation, v9, n1, pp96-102, 1993
Document type: journal article Language: English
Record type: Abstract
ISSN: 1042-296X

Two-dimensional robot navigation among unknown stationary polygonal obstacles

ABSTRACT:
...all of which are initially unknown to the robot. The environment is learned during the navigation process by use of a laser range-finding device, and new knowledge is integrated with...

...a new set of expanded polygonal obstacles, allowing the robot to be treated as a point , and the navigation problem is reduced to point navigation among unknown polygonal obstacles. A navigation graph is built from the transformed obstacles and used to search for a piecewise linear path to the destination . The algorithm is proved to converge to the desired destination in a finite number of steps provided a path to the destination exists.

...DESCRIPTORS: ARTIFICIAL INTELLIGENCE; ORIENTATION; DISTANCE MEASUREMENT; LASER APPLICATIONS; CURVES...

IDENTIFIERS: OBSTACLE AVOIDANCE; UNKNOWN STATIONARY POLYGONA LASER RANGE FINDING DEVICE; NAVIGATION GRAPH; PIECEWISE LINEAR zweidimensionaler Roboter; Navigation

?

4/7/2   (Item 2 from file: 8)

02001518   E.I. Monthly No: EI8608067887   E.I. Yearly No: EI86007250
 Title: PROFILE OF DRIVERS' MAP-READING ABILITIES.

Author: Streeter, Lynn A.; Vitello, Diane
Corporate Source: Bell Communications Research, Morristown, NJ, USA

Abstract: Self-described good navigators like and use maps, and they
differentially value landmarks, such as rivers, railroads, and houses,
whereas poor navigators tend not to use maps, prefer verbal instructions,
and tend to rate all landmarks as equally valuable for route finding.
Routes selected by people with varying degrees of familiarity with an area
were compared with routes generated by standard graph-search procedures. A
shortest-path, breadth-first route characterized half of the 'expert'
routes, whereas none of the graph-search procedures matched 'intermediate'
and 'novice' routes. A good predictor of whether people chose a particular
road was whether the sum of A PLUS B PLUS C (where A equals the
straight-line distance from the start to the road, B equals the distance
traveled on the road, and C equals the straight-line distance from the
departure point on the road to the destination) did not exceed the
straight-line distance between start and destination by more than about
20%. (Edited author abstract) 15 refs.
?